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TRANSMITTAL FORM

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TRANSMITTAL FORM (to be used for all correspondence after initial filing)	Application Number	10/813,412	
	Filing Date	30 March 2004	
	First Named Inventor	Po-Ying CHAN-HUI	
	Art Unit	Not Yet Assigned	
	Examiner Name	Not Yet Assigned	
Total Number of Pages in This Submission		Attorney Docket Number	131.04US

ENCLOSURES (check all that apply)

<input type="checkbox"/> Fee Transmittal Form <input type="checkbox"/> Fee Attached <input type="checkbox"/> Amendment / Reply <input type="checkbox"/> After Final <input type="checkbox"/> Affidavits/declaration(s) <input type="checkbox"/> Extension of Time Request <input type="checkbox"/> Express Abandonment Request <input checked="" type="checkbox"/> Information Disclosure Statement <input type="checkbox"/> Certified Copy of Priority Document(s) <input type="checkbox"/> Response to Missing Parts/ Incomplete Application <input type="checkbox"/> Response to Missing Parts under 37 CFR 1.52 or 1.53	<input type="checkbox"/> Drawing(s) <input type="checkbox"/> Licensing-related Papers <input type="checkbox"/> Petition <input type="checkbox"/> Petition to Convert to a Provisional Application <input type="checkbox"/> Power of Attorney, Revocation Change of Correspondence Address <input type="checkbox"/> Terminal Disclaimer <input type="checkbox"/> Request for Refund <input type="checkbox"/> CD, Number of CD(s) _____	<input type="checkbox"/> After Allowance Communication to Technology Center (TC) <input type="checkbox"/> Appeal Communication to Board of Appeals and Interferences <input type="checkbox"/> Appeal Communication to TC (Appeal Notice, Brief, Reply Brief) <input type="checkbox"/> Proprietary Information <input type="checkbox"/> Status Letter <input type="checkbox"/> Other Enclosure(s) (please identify below): 1. Copies of cited references. 2. Return Receipt Postcard
<div>Remarks</div>		

SIGNATURE OF APPLICANT, ATTORNEY, OR AGENT

Firm or Individual name	Stephen C. Macevicz, Registration No. 30,285		
Signature			
Date	11 June 2004		

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Typed or printed name	Virginia Griffith		
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Date: 11 June 2004

Signature:

Virginia Griffith

Case No. 131.04US

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

First Named Inventor: Po-Ying CHAN-HUI.

Serial No: 10/813,412

Customer No. 33,603

Filed: 30 March 2004

Examiner: Not Yet Assigned

For: ErbB HETERODIMERS AS
BIOMARKERS

Art Unit: Not Yet Assigned

INFORMATION DISCLOSURE STATEMENT

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

The references cited on the accompanying PTO-1449 form(s) may be material to the examination of the above-identified application and are, therefore, submitted in compliance with the duty of disclosure defined in 37 CFR 1.56 and 1.97. The Examiner is requested to make these citations of official record in this application. Copies of the cited references are enclosed or have been previously submitted in prior application(s) to the above application.

This Information Disclosure Statement under 37 CFR 1.56 and 1.97 is not to be construed as a representation that a search has been made, that additional information material to the examination of this application does not exist, or that any one or more of these citations constitutes prior art.

SUBMISSION INFORMATION

This Information Disclosure Statement is being submitted within three (3) months of filing or before mailing of a first Office Action, whichever occurs last. (37 CFR 1.97(b))


PAYMENT OF FEES (IF ANY DUE)

FEE AUTHORIZATION. The Commissioner is hereby authorized to withdraw from Deposit Account

50-2266

any submission fees or petition fees required for this Information Disclosure Statement.

Respectfully submitted,



Stephen C. Macevicz
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*650) 210-5959 Facsimile

Enclosures:
PTO Form 1449 w/copies of cited references

Form PTO-1449 (adapted) REFERENCES CITED BY APPLICANT	Docket No. 131.04US	Serial No. 10/813,412
	First Named Inventor Po-Ying CHAN-HUI	Customer No. 33603
	Filing Date 30 March 2004	Group Not Yet Assigned

References below marked with (*) have been submitted with parent application Ser. No. 10/154,042.

References below marked with (^) have been submitted with parent application Ser. No. 10/623,057.

U.S. PATENT DOCUMENTS

Examiner's Initial		Document Number	Inventor(s)	Issue Date (publication date) (mm dd yyyy)	Class/Subclass	Filing Date (mm dd yyyy)
	P1	2002/0037542	ALLBRITTON	(03/28/2002)	435/7.23	05/17/2001
	P2	4,331,590	BOCUSLASKI	05/25/1982	260/112 B	05/06/1980
	P3	4,650,750	GIESE	03/17/1987	435/7	03/19/1984
	P4	4,709,016	GIESE	11/24/1987	530/389	02/01/1982
	P5	4,780,421	KAMEDA	10/25/1988	436/518	04/03/1986
	P6	5,057,412	RABIN	10/15/1991	435/6	03/15/1988
	P7	5,340,716	ULLMAN	08/23/1994	435/6	06/20/1991
	P8	5,360,819	GIESE	11/01/1994	514/538	03/11/1985
	P9	5,470,705	GROSSMAN	11/28/1995	435/6	04/07/1992
	P10	5,494,793	SCHINDELE	02/27/1996	435/6	06/14/1989
	P11	5,514,543	GROSSMAN	05/07/1996	435/6	08/04/1993
	P12	5,516,636	MCCAPRA	05/14/1996	435/6	12/01/1992
	P13	5,516,931	GIESE	05/14/1996	560/59	04/22/1993
	P14	5,536,834	SINGH	07/16/1996	544/98	06/06/1995
	P15	5,565,324	STILL	10/15/1996	435/6	04/13/1994
	P16	5,578,498	SINGH	11/26/1996	436/518	11/22/1993
	P17	5,580,732	GROSSMAN	12/03/1996	435/6	08/26/1994
	P18	5,602,273	GIESE	02/11/1997	560/60	02/08/1996
	P19	5,604,104	GIESE	02/18/1997	435/7.1	02/08/1996

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	P20	5,610,020	GIESE	03/11/1997	435/7.1	02/08/1996
	P21	5,616,719	DAVALIAN	04/01/1997	546/334	05/09/1995
	P22	5,624,800	GROSSMAN	04/29/1997	435/6	05/19/1995
	P23	5,650,270	GIESE	07/22/1997	435/6	03/20/1990
	P24	5,703,222	GROSSMAN	12/30/1997	536/24.3	11/21/1995
	P25	5,705,622	McCAPRA	01/06/1998	536/23.1	03/28/1996
	P26	5,709,994	PEASE	01/20/1998	435/4	06/06/1995
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	P30	5,777,096	GROSSMAN	07/07/1998	536/24.3	05/06/1996
	P31	5,789,172	STILL	08/04/1998	435/6	07/11/1996
	P32	5,807,675	DAVALIAN	09/15/1998	435/6	06/07/1995
	P33	5,807,682	GROSSMAN	09/15/1988	435/6	06/17/1997
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	P35	5,843,666	AKHAVAN-TAFTI	12/01/1998	435/6	11/15/1996
	P36	5,846,839	GALLOP	12/08/1998	436/518	12/22/1995
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	P40	5,986,076	ROTHSCHILD	11/16/1999	536/22.1	11/22/1994

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	P43	6,027,890	NESS	02/22/2000	435/6	07/22/1997
	P44	6,251,581	ULLMAN	06/26/2001	435/4	05/22/1991
	P46	6,312,893	VAN NESS	11/06/2001	435/6	07/22/1997
	P47	6,322,980	SINGH	11/27/2001	435/6	04/30/1999
	P48	6,331,530	BRESLOW	12/18/2001	514/58	07/13/1999
	P49	6,335,201	ALLBRITTON	01/01/2002	436/63	07/21/1999
	P50	6,346,384	POLLNER	02/12/02	435/6	03/27/00
	P51	6,346,529	FLOYD	02/12/2002	514/226.2	04/15/1998
	P52	6,368,874	GALLOP	04/09/2002	436/518	11/17/1999
	P53	5,646,001	TERSTAPPEN	07/08/97	435/7.21	02/28/95
	P54	6,365,362	TERSTAPPEN	04/04/04	435/7.23	02/12/99

ADDITIONAL U.S. PATENT DOCUMENTS

Examiner's Initial		Document Number	Inventor(s)	Class /Subclass	Title	Issue Date or Publ. Date (dd.mm.yy)
	PP1	2004/0018528	Morimoto	435/006	Novel biomarkers of tyrosine kinase inhibitor exposure and activity in mammals	29 Jan 04
	PP2	2003/0170734	Williams	435/7.1	Multiplexed assays using electrophoretically separated molecular tags	01 Apr 03
	PP3	2003/0207403	Paszy	435/69.1	Beta-like glycoprotein hormone polypeptide and heterodimer	06 Nov 03

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	PP4	2003/0190689	Crosby	435/7.23	Molecular profiling of disease and therapeutic response using phospho-specific antibodies	09 Oct 03
	PP5	2002/0172984	Holland	435/7.21	Oligomerized receptors which affect pathways regulated by transmembrane ligands for Elk-related receptor tyrosine kinases	21 Nov 02
	PP6	2004/0033542	Frackelton	435/7.23	Shc protein-related methods and compositions for the prognosis of breast, prostate and ovarian cancer	19 Feb 04
	PP7	2004/0023288	Ridder	435/6	Method for solution based diagnosis	05 Feb 04
	PP8	2004/0029194	Parish	435/7.23	Method of identifying cancer markers and uses therefor in the diagnosis of cancer	12 Feb 04
	PP9	2004/0018562	Rouhani	435/7.1	Receptor detection	29 Jan 04
	PP10	Re. 35,491	Cline	435/6	Methods and compositions for detecting human tumors	08 Apr 97
	PP11	5,968,511	Akita	424/141.1	ERBB3 Antibodies	19 Oct 99
	PP12	5,480,968	Kraus	530/326	Isolated Polypeptide ErbB-3, Related to the Epidermal Growth Factor Receptor and Antibody thereto	02 Jan 96
	PP13	5,874,542	Rockwell	530/387.3	Single Chain Antibodies Specific to VEGF Receptors	23 Feb 99
	PP14	6,383,740	Collins	435/5	Methods for Simultaneously Detecting Both Members of a Binding Pair	07 May 02
	PP15	6,358,682	Jaffee	435/6	Method and Kit for the Prognostication of Breast Cancer	19 Mar 02
	PP16	5,192,660	Reed-Gitomer	435/7.21	Elisa Methods for the Determination of Human Platelet Derived Growth Factor (PDGF) Dimer Forms Present in Human Tissues and Fluids	09 May 93
	PP17	6,388,063	Plowman	536/23.5	Diagnosis and Treatment of SAD Related Disorders	14 May 02
	PP18	4,968,603	Slamon	435/6	Determination of Status in Neoplastic Disease	06 Nov 90
	PP19	4,772,550	Greenquist	435/7	Heterogeneous Specific Binding Assay Employing an Aggregatable Binding Reagent	20 Sep 88
	PP20	4,891,324	Pease	436/519	Particle with luminescer for assays	02 Jan 90

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	PP21	5,804,396	Plowman	435/7.23	Assay for Agents Active in Proliferative Disorders	08 Sep 98
	PP22	5,108,896	Philo	435/7.5	Simultaneous Immunoassay of Two Analytes Using Dual Enzyme Labelled Antibodies	28 Apr 92
	PP23	5,436,128	Harpold	435/6	Assay Methods and Compositions for Detecting and Evaluating the Intracellular Transduction of an Extracellular Signal	25 Jul 95
	PP24	5,800,999	Bronstein	435/6	Dioxetane-precursor-labeled probes and detection assays employing the same	01 Sep 98
	PP25	5,886,238	Schaap	568/650	Alkene precursors for preparing chemiluminescent dialkyl-substituted 1,2-dioxetane compounds	23 Mar 99
	PP26	6,001,573	Roelant	435/6	Use of porphyrins as a universal label	14 Dec 99
	PP27	6,727,072	Spaulding	435/7.21	EGF-R Detection Kit	27 Apr 04
	PP28	6,489,116	Wagner	435/6	Sensitive, Multiplexed Diagnostic Assays for Protein Analysis	03 Dec 02
	PP29	6,248,546	Khosravi	435/7.94	Assay of IGFBP Complex	19 Jun 01
	PP30	6,627,400	Singh	435/6	Multiplexed Measurement of Membrane Protein Populations	30 Sep 03
	PP31	6,417,168	Greene	514/44	Compositions and Methods of Treating Tumors	09 Jul 02
	PP32	6,573,043	Cohen	435/6	Tissue Analysis and Kits therefor	03 Jun 03
	PP33	6,627,196	Baughman	424/138.1	Dosages for Treatment with Anti-ErbB2 Antibodies	30 Sep 03

FOREIGN PATENT DOCUMENTS

Examiner's Initial		Country	Document Number	Applicant	Date (mm-dd-yyyy)
	F1*	EP	0 484 027	IMPERIAL CHEMICAL INDUSTRIES PLC	05/06/1992
	F2*	WO	93/06121	AFFYMAX TECHNOLOGIES N.V.	04/01/1993
	F3*	WO	96/24061	ONTOGEN CORPORATION	08/08/1996

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	F4*	WO	97/27325	DARWIN MOLECULAR CORPORATION	07/31/1997
	F5*	WO	97/27327	DARWIN MOLECULAR CORPORATION	07/31/1997
	F6*	WO	97/28275	IGEN INTERNATIONAL INC.	08/07/1997
	F7*	WO	98/01533	BURSTEIN LABORATORIES, INC.	01/15/1998
	F8*	WO	98/15830	WALLAC OY	04/16/1998
	F9*	WO	99/05319	RAPIGENE, INC.	02/04/1999
	F10*	WO	99/42838	DADE BEHRING INC.	08/26/1999
	F11*	WO	99/64519	AMERSHAM PHARMACIA BIOTECH UK LIMITED	12/16/1999
	F12*	WO	00/56925	ACLARA BIOSCIENCES, INC.	09/28/2000
	F13*	WO	00/66607	ACLARA BIOSCIENCES, INC.	11/09/2000

ADDITIONAL FOREIGN PATENT DOCUMENTS

Examiner's Initial		Country and Document Number	Inventor	Title	Publication Date (dd-mm-yy)
	FF1	WO 2004/008099	Koll	Methods for Identifying Tumors that are Responsive to Treatment with Anti-ErbB2 Antibodies	22 Jan 04
	FF2	WO 2004/000102	Bacus	Method for Predicting Response to Epidermal Growth Factor Receptor-Directed Therapy	31 Dec 03
	FF3	WO 01/57530	Liotta	Method and Apparatus for Signal Transduction Pathway Profiling	09 Aug 01
	FF4	WO 93/06121	Dower	Method of Synthesizing Diverse Collections of Oligomers	01 Apr 93
	FF5	WO 97/00446	Landegren	Immunoassay and Kit with Two Reagents That Are Cross-Linked If They Adhere To an Analyte	03 Jan 97
	FF6	WO 98/42736	Hochstrasser	Diagnosis of Colorectal Cancer and Proteins and Antibodies for Use therein	01 Oct 98

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References below marked with (^) have been submitted with parent application Ser. No. 10/623,057.

	FF7	WO 99/42838	Singh	Chemiluminescent Compositions for Use in Detection of Multiple Analytes	26 Aug 99
	FF8	WO 03/045990	LeGrain	Protein-Protein Interactions Involving Transforming Growth Factor β Signaling or Involving Transduction Signals of Transforming Factor β Family Members	05 Jun 03
	FF9	WO 2004/009798	Rich	Protein Interaction Difference Mapping	29 Jan 04

OTHER REFERENCES

Examiner's Initial		Citation
	D1	Ady, et al., "Detection of HER-2/neu-positive circulating epithelial cells in prostate cancer patients", British Journal of Cancer, 2004, 90:443-448.
	D2	Agus, et al., "A Potential Role for Activated HER-2 in Prostate Cancer", Seminars in Oncology, 2000, 27:76-100.
	D3	Agus, et al., "Targeting ligand-activated ErbB2 signaling inhibits breast and prostate tumor growth", Cancer Cell, 2002, 2:127-137.
	D4	Ahram, et al., "Proteomic Analysis of Human Prostate Cancer", Molecular Carcinogenesis, 2002, 33:9-15.
	D5	Albanell, et al., "Mechanism of Action of Anti-HER2 Monoclonal Antibodies: Scientific Update on Trastuzumab and 2C4", New Trends in Cancer for the 21 st Century, 2003, 253-268.
	D6	Alimandi, et al., "Cooperative signaling of ErbB3 and ErbB2 in neoplastic transformation and human mammary carcinomas", Oncogene, 1995, 10:1813-1821.
	D7	Andersen, "Determination of Estrogen Receptors in Paraffin-Embedded Tissue", Acta Oncologica, 1992, 31:611-627.
	D8	Angers, et al., "Dimerization: An Emerging Concept for G Protein-Coupled Receptor Ontogeny and Function", Annu. Rev. Pharmacol. Toxicol., 2002, 42:409-435.
	D9	Antonsson, et al., "An <i>in Vitro</i> 96-Well Plate Assay of the Mitogen-Activated Protein Kinase Cascade", Analytical Biochemistry, 1999, 267:294-299.
	D10	Arteaga, "Epidermal Growth Factor Receptor Dependence in Human Tumors: More Than Just Expression?", The Oncologist, 2002, 7:31-39.
	D11	Auerbach, et al., "Proteomic approaches for generating comprehensive protein interaction maps", Targets, 2003, 2:85-92.
	D12	Baselga, "Anti-EGFR therapy: A new targeted approach to cancer treatment", Oncology Biotherapeutics, 2002, 2:2-36.
	D13	Baselga, "A new anti-ErbB2 strategy in the treatment of cancer: Prevention of ligand-dependent ErbB2 receptor heterodimerization", Cancer Cell, 2002, 2:93-95.

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	D14	Baselga, et al., "Mechanism of action of anti-HER2 monoclonal antibodies", Annals of Oncology, 2001, 12:S35-S41.
	D15	Bast, et al., "Coexpression of the HER-2 Gene Product, p185 ^{HER-2} , and Epidermal Growth Factor Receptor, p170 ^{EGF-R} , on Epithelial Ovarian and Normal Tissues", Hybridoma, 1998, 17:313-321.
	D16^	Beaudet, et al., "Homogenous Assays for Single-Nucleotide Polymorphism Typing Using AlphaScreen", Genome Research, 2001, 11:600-608.
	D17	Becker, "Signal transduction inhibitors-a work in progress", Nature Biotechnology, 2004, 22:15-18.
	D18	Bei, et al., "Co-localization of multiple ErbB receptors in stratified epithelium of oral squamous cell carcinoma", Journal of Pathology, 2001, 195:343-348.
	D19	Bichsel, et al., "Cancer Proteomics: From Biomarker Discovery to Signal Pathway Profiling", The Cancer Journal, 2001, 7:69-78.
	D20	Blagoev, et al., "A proteomics strategy to elucidate functional protein-protein interactions applied to EGF signaling", Nature Biotechnology, 2003, 21:315-318.
	D21	Blakely, et al., "Epidermal growth factor receptor dimerization monitored in live cells", Nature Biotechnology, 2000, 18:218-222.
	D22	Blume-Jensen, et al., "Oncogenic kinase signalling", Nature, 2001, 411: 355-365.
	D23	Bodey, et al., "Clinical and Prognostic Significance of the Expression of the <i>c-erbB-2</i> and <i>c-erbB-3</i> Oncoproteins in Primary and Metastatic Malignant Melanomas and Breast Carcinomas", Anticancer Research, 1997, 17:1319-1330.
	D24	Bohula, et al., "Targeting the type 1 insulin-like growth factor receptor as anti-cancer treatment", Anti-Cancer Drugs, 2003, 14:669-682.
	D25	Brandt, et al., "c-erbB-2/EGFR as dominant heterodimerization partners determine a motogenic phenotype in human breast cancer cells", The FASEB Journal, 1999, 13:1939-1949.
	D26	Brockhoff, et al., "Epidermal Growth Factor Receptor, c-erbB2 and c-erbB3 Receptor Interaction, and Related Cell Cycle Kinetics of SK-BR-3 and BT474 Breast Carcinoma Cells", Cytometry, 2001, 44:338-348.
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